# OXIDE GEL ACTIVATOR



Version 1 Issue date: 14/06/2011
Version 94 (replaces version 93) Revision date: 23/05/2023 Print date: 23/05/2023

## 1 IDENTIFICATION OF THE SUBSTANCE OR THE MIXTURE AND OF THE COMPANY OR THE UNDERTAKING.

### 1.1 Product identifier.

| | |
|---|---|
| **Product name:** | OXIDE GEL ACTIVATOR |

**Product code:**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against.

Decorative activator, oxide effect

**Uses advised against:**
Decorative activator, oxide effect

### 1.3 Details of the supplier of the safety data sheet.

| | |
|---|---|
| **Company:** | **SATINE FACTORY S.L** |
| **Address:** | C/ Coure 16-24 |
| **Town:** | 12530 - Burriana |
| **Province:** | Castellón |
| **Telephone:** | 964100100 |
| **Fax:** | 692100100 |
| **E-mail:** | info@satine.es |
| **Web:** | www.satine.com |

### 1.4 Emergency telephone number:

+34 977 822 245 (Solo disponible en horario de oficina; Lunes-Viernes; 08:00-18:00)

## 2 HAZARDS IDENTIFICATION.

### 2.1 Classification of the substance or mixture.

XI Irritant
R36 Irritating to eyes
R37 Irritating to respiratory system.

R38 Irritating to skin
R43 May cause sensitisation by skin contact.

### 2.2 Label elements.

| | |
|---|---|
| **Hazard pictograms** | None. |
| **Signal word** | None. |

### 2.3 Other hazards.

**Contact:** The compound may cause eye and skin irritation.

**Inhalation:** May be irritating to the respiratory tract and mucous membranes.

**Ingestion:** May cause intestinal irritation

## 3 COMPOSITION/INFORMATION ON INGREDIENTS.

### 3.1 Substances.

Not applicable.

### 3.2 Mixtures.

| Component name | CAS number | Concentration |
|---|---|---|
| Phosphoric acid ($H_3PO_4$) | 7664-38-2 | 10-30% |
| Hydrochloric acid (HCl) | 7647-01-0 | 5-10% |
| Water ($H_2O$) | 7732-18-5 | 50-80% |

## 4 FIRST AID MEASURES.

### 4.1 Description of first aid measures.

Assistance is generally not required. If in doubt or if symptoms persist, call a doctor. Never give anything by mouth to an unconscious person.

**Inhalation.**

Move the victim to a ventilated place. Breathe deeply in fresh air.

**Eye contact.**

Do not rub the eyes. Rinse immediately with plenty of clean water for at least 15 minutes, keeping the eyes open. Remove contact lenses if this can be done easily. Consult an ophthalmologist.

**Skin contact.**

Powder: Brush off and wash the skin with soap and water.

Gel: Remove contaminated clothing. Wash the skin with soap and water.

**Ingestion.**

Do not induce vomiting. Rinse the mouth with plenty of water. Drink plenty of water and obtain urgent medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed.

Long-term exposure (chronic) may cause damage to certain organs or tissues.

### 4.3 Indication of any immediate medical attention and special treatment needed.

In case of doubt, or if symptoms of discomfort persist, seek medical attention. Never give anything by mouth to unconscious persons. Keep the person comfortable. Turn them onto their left side and keep them there while awaiting medical help.

## 5 FIRE-FIGHTING MEASURES.

The product does not present any particular fire hazard.

### 5.1 Extinguishing media. Suitable extinguishing media:

Extinguishing powder or $CO_2$. In the case of more serious fires, also alcohol-resistant foam and water spray.

**Unsuitable extinguishing media:**

Do not use a direct jet of water for extinguishing. In the presence of electrical voltage, the use of water or foam as extinguishing media is not acceptable.

### 5.2 Special hazards arising from the substance or mixture. Special risks.

Exposure to combustion or decomposition products may be harmful to health.

### 5.3 Advice for fire-fighters.

Cool tanks, tankers or containers near the source of heat or fire with water. Take the wind direction into account. Prevent the products used to fight the fire from entering drains, sewers or watercourses.

**Fire protection equipment.**

Depending on the magnitude of the fire, it may be necessary to use heat-protective suits, self-contained breathing apparatus, gloves, protective goggles or face masks and boots.

## 6 ACCIDENTAL RELEASE MEASURES.

### 6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and personal protection measures, see section 8.

### 6.2 Environmental precautions.

Product not classified as hazardous to the environment; avoid any spillage as far as possible.

### 6.3 Methods and material for containment and cleaning up.

Contain and collect the spill with inert absorbent material (earth, sand, vermiculite, diatomaceous earth...) and clean the area immediately with a suitable decontaminant.

Place the residues in closed containers suitable for disposal, in accordance with local and national regulations (see section 13).

### 6.4 Reference to other sections.

For exposure control and personal protection measures, see section 8.

For waste disposal, follow the recommendations of section 13.

## 7 HANDLING AND STORAGE.

### 7.1 Precautions for safe handling.

For personal protection, see section 8.

Smoking, eating and drinking must be prohibited in the application area.

Comply with legislation on occupational safety and hygiene.

Never use pressure to empty the containers; they are not pressure-resistant. Keep the product in containers of the same material as the original.

### 7.2 Conditions for safe storage, including any incompatibilities.

Store in accordance with local legislation. Observe the indications on the label. Store the containers between 5 and 25 °C, in a dry, well-ventilated place, away from sources of heat and direct sunlight. Keep away from ignition points. Keep away from oxidising agents and strongly acidic or alkaline materials. Do not smoke. Prevent entry by unauthorised persons. Once opened, the containers must be carefully resealed and placed upright to avoid spillage.

The product is not affected by Directive 2012/18/EU (SEVESO III).

### 7.3 Specific end use(s).

Not available.

# 8 EXPOSURE CONTROLS/PERSONAL PROTECTION.

## 8.1 Control parameters.

**Exposure limit during work for:**

| Component | Occupational exposure limit (TLV) | Short-term exposure limit (STEL) |
|---|---|---|
| Phosphoric acid ($H_3PO_4$) | 1 mg/m³ (as aerosol) | 3 mg/m³ |
| Hydrochloric acid (HCl) | 2 ppm (as vapour) | 5 ppm |

## 8.2 Exposure controls.

| | |
|---|---|
| **Appropriate technical controls** | Adequate general ventilation must be provided. The air renewal rate must correspond to the conditions. If possible, use extraction hoods, local exhaust ventilation or other engineering measures to keep exposure levels below the recommended exposure limits. If no exposure limit has been established, the level of airborne contaminants must be kept at an acceptable level. |

**Individual protection measures, such as personal protective equipment**

| | |
|---|---|
| **General information** | Personal protective equipment shall be selected in accordance with the current CEN standard and in cooperation with the personal protective equipment supplier. |
| **Eye/face protection** | Use safety glasses with side shields (or tightly sealed protective goggles). |

**Skin protection**

| | |
|---|---|
| **Hand protection** | Use suitable chemical-resistant gloves |

**Others**

Wear suitable protective clothing.

**Respiratory protection**

In case of insufficient ventilation, use suitable respiratory equipment.

**Thermal hazards**

Wear suitable thermal protective clothing if necessary.

**Hygiene measures**

Always follow good personal hygiene practices, such as washing after handling and before eating, drinking and/or smoking. Routinely wash clothing and protective equipment to remove contaminants.

**Environmental exposure controls**

It must be verified that emissions from ventilation equipment or work processes comply with environmental protection legislation. To reduce emissions to acceptable levels, it may be necessary to use fume scrubbers or filters or to modify the design of the process equipment.

# 9 PHYSICAL AND CHEMICAL PROPERTIES.

## 9.1 Information on basic physical and chemical properties.

| Property | Value |
|---|---|
| Physical state | Gel |
| Colour | Transparent to light yellow |
| Odour | Characteristic acid odour |
| pH | 1-2 (very acidic) |
| Boiling point | Not available (depends on concentration and formulation) |
| Freezing point | Not available (depends on concentration and formulation) |
| Density | 1.10 - 1.30 g/cm$^3$ |
| Water solubility | Soluble in water |
| Viscosity | High (typical gel property) |
| Flash point | Not flammable |
| Auto-ignition temperature | Not available |
| Lower explosive limit | Not applicable |
| Upper explosive limit | Not applicable |

## 9.2 Other information.

Stability: The product is stable under storage and use conditions.

Reactivity: Reacts with metals and other alkaline compounds, forming oxides and releasing acid gases.

# 10 STABILITY AND REACTIVITY.

## 10.1 Reactivity.

The product does not present hazards due to its reactivity.

## 10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

## 10.3 Possibility of hazardous reactions.

The product does not present the possibility of hazardous reactions.

## 10.4 Conditions to avoid.

Avoid any type of incorrect handling.

## 10.5 Incompatible materials.

Keep away from oxidising agents and strongly alkaline or acidic materials, in order to avoid exothermic reactions.

## 10.6 Hazardous decomposition products.

Does not decompose if used for the intended purposes.

## 11 TOXICOLOGICAL INFORMATION.

| | |
|---|---|
| **General information** | Occupational exposure to the substance or mixture may have adverse effects. |

**Information on likely routes of exposure**

| | |
|---|---|
| **Inhalation** | May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation may be harmful. |
| **Skin contact** | May cause an allergic skin reaction. |
| **Eye contact** | Direct contact with the eyes may cause temporary irritation. |
| **Ingestion** | May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure. |
| **Symptoms** | Exposure may cause temporary irritation, redness or discomfort. |

## 12 ECOLOGICAL INFORMATION.

### 12.1 Toxicity.

No information is available on the ecotoxicity of the substances present.

### 12.2 Persistence and degradability.

No information is available on the biodegradability of the substances present. No information is available on the degradability of the substances present. No information is available on the persistence and degradability of the product.

### 12.3 Bioaccumulative potential.

No information is available on the bioaccumulation potential.

### 12.4 Mobility in soil.

No information is available on mobility in soil.

The product must not be allowed to enter sewers or watercourses.

Avoid penetration into the ground.

### 12.5 Results of PBT and vPvB assessment.

No information is available on the PBT and vPvB assessment of the product.

### 12.6 Endocrine-disrupting properties.

This product does not contain components with endocrine-disrupting properties on the environment.

### 12.7 Other adverse effects.

No other information is available on other adverse effects on the environment.

## 13 DISPOSAL CONSIDERATIONS.

### 13.1 Waste treatment methods.

Discharge into sewers or watercourses is not permitted. Waste and empty containers must be handled and disposed of in accordance with the local/national legislation in force.

Follow the provisions of Directive 2008/98/EC regarding waste management.

## 14 TRANSPORT INFORMATION.

Not hazardous for transport. In the event of an accident and spillage of the product, act in accordance with section 6.

### 14.1 UN number or ID number.

Not hazardous for transport.

### 14.2 UN proper shipping name.

**Description:**

**ADR/RID:** Not hazardous for transport.

**IMDG:** Not hazardous for transport.

**ICAO/IATA:** Not hazardous for transport.

### 14.3 Transport hazard class(es).

Not hazardous for transport.

### 14.4 Packing group.

Not hazardous for transport.

### 14.5 Environmental hazards.

Not hazardous for transport.

Transport by ship, EmS - Emergency schedules (F – Fire, S – Spillage): Not applicable.

### 14.6 Special precautions for user.

Not hazardous for transport.

### 14.7 Maritime transport in bulk according to IMO instruments.

Not hazardous for transport.

## 15 REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso category - Directive 2012/18/EU: E1
Restrictions on the product or contained substances according to Annex XVII of Regulation (EC) 1907/2006 Contained substances
Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
not applicable
Candidate List substances (Art. 59 REACH)
According to the available data, the product does not contain SVHC substances at a proportion ≥ 0.1%.
Substances subject to authorisation (Annex XIV REACH)
None

**Biocides Regulation (Reg. (EU) 528/2012):**

not applicable

**Detergents Regulation (Reg. (EC) 648/2004):**

not applicable

**Dir. 2004/42/EC - VOC / Legislative Decree 161/2006:**

not applicable

**Substances subject to export notification (Regulation (EU) 649/2012):**

None

**Substances subject to the Rotterdam Convention:**

None

**Substances subject to the Stockholm Convention:**

None
Health controls
Information not available
Classification for water pollution in Germany (AwSV, of 18 April 2017)
WGK 2: Hazardous to water

### 15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

## 16 OTHER INFORMATION

**LEGEND:**

**- ADR:** European Agreement concerning the International Carriage of Dangerous Goods by Road - CAS: Chemical Abstracts Service number - EC: Identification number in ESIS (European archive of existing substances)

**- CLP:** Regulation (EC) 1272/2008

**- DNEL:** Derived No Effect Level

**- EC50:** Concentration causing an effect in 50% of the tested population

**- EmS:** Emergency schedule

**- GHS:** Globally Harmonized System for the classification and labelling of chemicals

**- IATA DGR:** Dangerous Goods Regulations of the International Air Transport Association

**- IC50:** Immobilisation concentration for 50% of the tested population

**- IMDG:** International Maritime Dangerous Goods Code

**- IMO:** International Maritime Organization

**- INDEX:** Identification number in Annex VI of the CLP

**- LC50:** Lethal concentration 50%

**- LD50:** Lethal dose 50%

**- OEL:** Occupational exposure level

**- PBT:** Persistent, bioaccumulative and toxic according to REACH

**- PEC:** Predicted environmental concentration

**- PEL:** Predicted exposure level

**- PNEC:** Predicted no-effect concentration

**- REACH:** Regulation (EC) 1907/2006

**- RID:** Regulations concerning the International Carriage of Dangerous Goods by Rail

**- ATE:** Acute toxicity estimate

**- TLV:** Threshold limit value

**- TLV CEILING:** Concentration that must not be exceeded at any time during occupational exposure.

**- TWA:** Time-weighted average exposure limit

**- TWA STEL:** Short-term exposure limit

**- VOC:** Volatile organic compound

**- vPvB:** Very persistent and very bioaccumulative according to REACH

**- WGK:** Water hazard class (Germany).

- A1 = confirmed human carcinogen.

- A2 = suspected human carcinogen.

- A3 = confirmed animal carcinogen with unknown relevance to humans.

- A4 = not classifiable as a human carcinogen.

- A5 = not suspected as a human carcinogen.

- IBE = Substance with Biological Exposure Index.

**GENERAL BIBLIOGRAPHY:**

1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
3. Regulation (EU) 2020/878 (Annex II to the REACH Regulation)
4. Regulation (EC) 790/2009 of the European Parliament (1st ATP CLP)
5. Regulation (EU) 286/2011 of the European Parliament (2nd ATP CLP)
6. Regulation (EU) 618/2012 of the European Parliament (3rd ATP CLP)
7. Regulation (EU) 487/2013 of the European Parliament (4th ATP CLP)
8. Regulation (EU) 944/2013 of the European Parliament (5th ATP CLP)
9. Regulation (EU) 605/2014 of the European Parliament (6th ATP CLP)
10. Regulation (EU) 2015/1221 of the European Parliament (7th ATP CLP)
11. Regulation (EU) 2016/918 of the European Parliament (8th ATP CLP)
12. Regulation (EU) 2016/1179 (9th ATP CLP)
13. Regulation (EU) 2017/776 (10th ATP CLP)
14. Regulation (EU) 2018/669 (11th ATP CLP)
15. Regulation (EU) 2019/521 (12th ATP CLP)
16. Delegated Regulation (EU) 2018/1480 (13th ATP CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (EU) 2020/217 (14th ATP CLP)
19. Delegated Regulation (EU) 2020/1182 (15th ATP CLP)
20. Delegated Regulation (EU) 2021/643 (16th ATP CLP)
21. Delegated Regulation (EU) 2021/849 (17th ATP CLP)
22. Delegated Regulation (EU) 2022/692 (18th ATP CLP)

The Merck Index - 10th edition
Handling Chemical Safety
INRS - Fiche Toxicologique (toxicological sheet)
Patty - Industrial Hygiene and Toxicology
N.I. Sax - Dangerous Properties of Industrial Materials-7, 1989 edition
IFA GESTIS website
ECHA Agency website
Database of SDS models for chemical substances - Ministry of Health and Istituto Superiore di Sanità